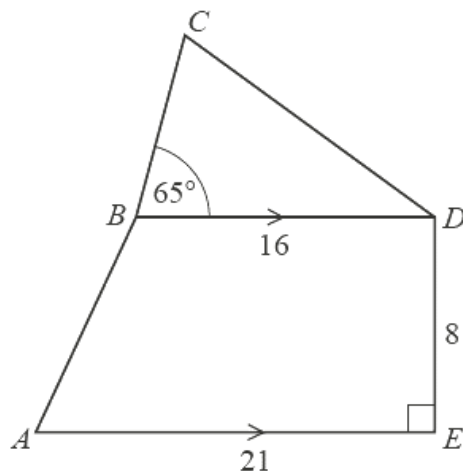


Trigonometry – 2024 O Level Math D 4024

1. June/2024/Paper_4024/21/No.7(b)

(b)

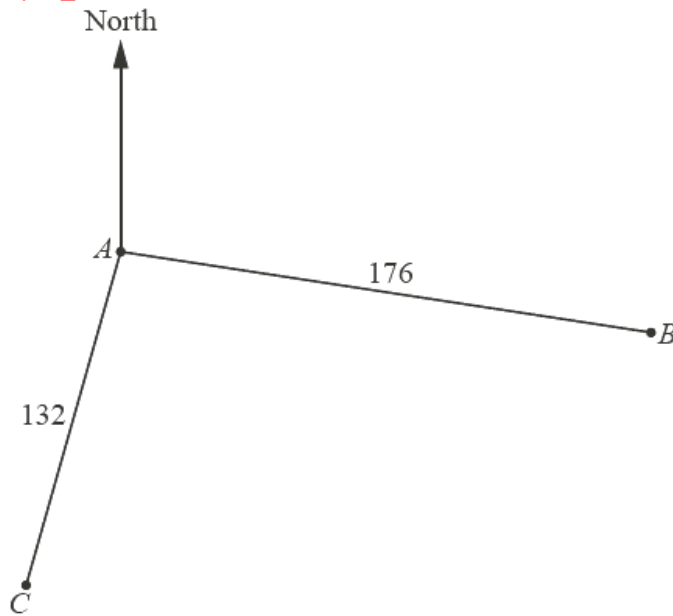
NOT TO
SCALE*ABCDE* is a pentagon.*AE* is parallel to *BD*.*AE* = 21 cm, *BD* = 16 cm and *DE* = 8 cm.Angle *DEA* = 90° and angle *CBD* = 65° .(i) Calculate angle *BAE*.Angle *BAE* = [3]

- (ii) The area of pentagon $ABCDE$ is 200 cm^2 .

Calculate the length of BC .

$BC = \dots\dots\dots \text{ cm [5]}$

2. June/2024/Paper_4024/21/No.9

NOT TO
SCALE

The diagram shows the positions of three ports A , B and C .
 The bearing of port B from port A is 107° .
 The bearing of port C from port A is 192° .
 $AB = 176$ km and $AC = 132$ km.

(a) Find the bearing of A from B .

..... [1]

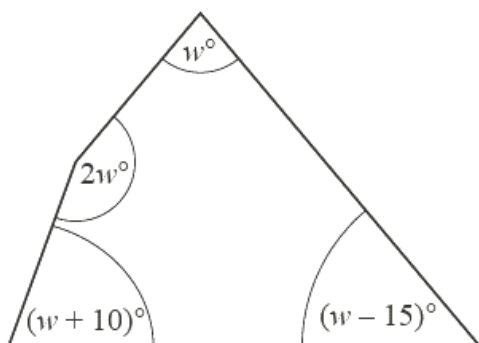
(b) Calculate BC .

$BC =$ km [4]

3. June/2024/Paper_4024/22/No.10(b)

A shop sells two varieties of apple tree.

(b)



NOT TO
SCALE

The diagram shows a quadrilateral.

Form an equation in w and solve it to find the size of the **largest** angle in the quadrilateral.

Largest angle = [4]